

I/We Claim:

1. A method of smoothing cursor movement, the method comprising:
receiving, from a pointing device, an indication of an amount of movement of an operation instrumentality of the pointing device in a first direction;
reporting to a data input device having a display, at a reporting time, a predetermined portion of the amount of the movement in the first direction; and
reporting, in at least one subsequent reporting step, a remainder of the amount of the movement in the first direction.

2. The method of claim 1, wherein at least two reporting steps are performed for each one time the receiving step is performed.

3. The method of claim 1, wherein:
the step of receiving further comprises receiving, from the pointing device, an indication of an amount of movement of the pointing device in a second direction,
the step of reporting to the data input device having the display further comprises reporting to the data input device, at the reporting time, a predetermined portion of the amount of the movement in the second direction, and
the step of reporting in at least one subsequent reporting time further comprises reporting, in said at least one subsequent reporting step, a remainder of the amount of the movement in the second direction.

4. The method of claim 1, wherein at least three said reporting steps are performed to report the amount of movement.

5. The method of claim 1, wherein a first value, received from the pointing device, represents the indication of an amount of movement in the first direction, the method further comprising:

deriving a first reporting value from the first value, the first reporting value being less than an original value of the first value received from the pointing device;

subtracting the first reporting value from the first value to update the first value to indicate a remaining amount of movement in the first direction not yet reported,

wherein a first one of the reporting steps reports the first reporting value and the remaining amount of movement is reported in said at least one subsequent reporting step.

6. The method of claim 5, wherein a second value, received from the pointing device, represents the indication of an amount of movement in the second direction, the method further comprising:

deriving a second reporting value from the second value, the second reporting value being less than an original value of the second value received from the pointing device;

subtracting the second reporting value from the second value to update the second value to indicate a remaining amount of movement in the second direction not yet reported,

wherein the first one of the reporting steps reports the second reporting value and the remaining amount of movement is reported in said at least one subsequent reporting step.

7. The method of claim 1, wherein an amount of time between reports times is no larger than an amount of time between refreshes of the display.

8. The method of claim 1, wherein the predetermined portion of the amount of movement reported to the data input device is limited to a predefined maximum value and the remaining amount of movement that is subsequently reported includes an amount of movement in excess of the predefined maximum value.

9. A device for smoothing cursor movement, the device comprising:

a movement amount receiver for receiving, from a pointing device, a first value as an indication of an amount of movement of an operation instrumentality of the pointing device in a first direction;

a movement amount determiner for determining a first reporting value from the first value, the first reporting value being a predetermined portion of an original value of the first value received from the pointing device;

a reporter for reporting, in a first one of a plurality of reports, the first reporting value and, in said at least one subsequent report, the remaining amount of movement.

10. The device of claim 9, wherein the reporter is configured to provide at least two reports for each one time the movement amount receiver receives the first value from the pointing device.

11. The device of claim 9, wherein the reporter is configured to provide at least three reports to report said amount of movement.

12. The device of claim 9, wherein the movement amount determiner comprises:

a divider for deriving a first reporting value from the first value by dividing the first value by a predetermined value; and

a subtractor for subtracting the first reporting value from the first value and for updating the first value to indicate an amount of movement not yet reported.

13. The device of claim 9, wherein:

the movement amount receiver is further for receiving a second value from the pointing device, the second value representing an amount of movement of the pointing device in the second direction,

the movement amount determiner is further for determining a second reporting value from the second value, the second reporting value being less than an original value of the second value received from the pointing device, and

the reporter is further for reporting, in the first one of a plurality of reports, the second reporting value and, in said at least one subsequent report, the remaining amount of movement in the second direction.

14. The device of claim 9, wherein the reports from the reporter are arranged to be provided to a data input device having a display, and the reporter is configured such that an amount of time between the reports is no larger than an amount of time between refreshes of the display.

15. A system for smoothing cursor movement, the system comprising:

a pointing device configured to track movement of an operation instrumentality of the pointing device in a first direction, and to report a first value as an indication of an amount of the movement in the first direction;

a receiving device having a movement receiver for receiving, from the pointing device, the first value, the receiving device further comprising:

a movement amount determiner for determining a first reporting value from the first value, the first reporting value being a predetermined portion of an original value of the first value received from the pointing device; and

a reporter for reporting, in a first one of a plurality of reports, the first reporting value and, in said at least one subsequent report, the remaining amount of movement.

16. The system of claim 15, wherein:

the pointing device is further for tracking movement of the operation instrumentality in a second direction, and for reporting a second value indicating an amount of the movement in the second direction;

the movement receiver is further for receiving, from the pointing device, a second value as an indication of an amount of movement of the operation instrumentality of the pointing device in a second direction;

the movement amount determiner is further for determining a second reporting value from the second value, the second reporting value being a predetermined portion of an original value of the second value received from the pointing device;

the reporter is further for reporting, in the first one of a plurality of reports, the second reporting value and, in said at least one subsequent report, the remaining amount of movement in the second direction.

17. The system of claim 15, wherein the reporter is configured to provide at least two reports for each one time the movement amount receiver receives the first value from the pointing device.

18. The system of claim 15, wherein the reporter is configured to provide at least three reports to report said amount of movement.

19. The system of claim 15, wherein the pointing device communicates with the receiving device wirelessly.

20. The system of claim 19, wherein the pointing device communicates with the receiving device via RF transmissions.

21. The system of claim 15, wherein the movement amount determiner comprises:
a divider for deriving the first reporting value from the first value by dividing the first value by a predetermined value;
a subtractor for subtracting the first reporting value from the first value and for updating the first value to indicate an amount of movement not yet reported.

22. The system of claim 15, wherein the reports from the reporter are arranged to be provided to a data input device having a display, and the reporter is configured such that an amount of time between the reports is no larger than an amount of time between refreshes of the display.